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<p>5. A method of controlling a remote intermediate transmitter station to communicate at least one instruct signal to at least one receiver station, said remote intermediate transmitter station including, one of a broadcast and a cablecast transmitter for transmitting said at least one instruct signal which is effective at said at least one receiver station to instruct one of a computer and a processor, a plurality of selective transfer devices each operatively connected to said one of a broadcast and a cablecast transmitter, said plurality of selective transfer devices each being adapted for communicating said at least one instruct signal, a receiver for receiving said at least one instruct signal from at least one origination transmitter station, a control signal detector, and one of a controller and a computer capable of controlling at least one of said plurality of selective transfer devices, said remote intermediate transmitter station being adapted to detect the presence of said at least one control signal, to control</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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communication of a first instruct signal in response to said control signal, and to deliver at said one of a broadcast and a cablecast transmitter said first instruct signal, said method comprising the steps of. receiving said first 'instruct signal at said at least one origination transmitter station and delivering said first \*instruct signal to at at least one origination transmitter; ]receiving said at least one control signal which is operable at said remote intermediate transmitter station to control the communication of said first instruct signal; and transmitting said at least one control signal to said at least one origination transmitter before a specific time.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.

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<p>10. A method of controlling a remote intermediate data transmitter station to communicate data to at least one receiver station, said remote intermediate data transmitter station including one of a broadcast and a cablecast transmitter for transmitting said data, a plurality of selective transfer devices each operatively connected to said one of a broadcast and a cablecast transmitter, a data receiver for receiving said data from at least one origination transmitter station, a control signal detector, and one of a controller and a computer capable of controlling at least one of said plurality of selective transfer devices, said remote intermediate data transmitter station adapted to detect at least one control signal, to control communication of said data in response to said at least one control signal, and to deliver said data at said one of a broadcast and a cablecast transmitter-, said method comprising the steps of- receiving said data at said at least one origination transmitter station and delivering, said data to at</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>

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least one origination transmitter, said data comprising, an instruct signal, receiving said at least one control signal which at said remote intermediate data transmitter station operates to control communication of said data; and transmitting said at least one control signal to said at least one origination transmitting-Utter before a specific time.

displayed,  
receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.

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<p>11. A method of controlling a remote television transmitter station to communicate television program material to at least one receiver station, said remote television transmitter station including one of a broadcast and a cablecast transmitter for transmitting television programming, a plural-plurality of selective transfer devices each operatively connected to said one of a broadcast and a cablecast transmitter for communicating said television programming, a television receiver for receiving said television programming from at least one origination transmitter station, a control signal detector, and a one of controller and a computer capable of controlling at least one of said selective transfer devices, said remote television transmitter station being adapted to detect the presence of at least one control signal, to control the communication of said television programming in response to said at least one control signal, and to deliver at said one of a broadcast and a cablecast transmitter said</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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television programming, said method comprising the steps of: receiving said television programming at said at least one origination transmitter station and delivering said television programming to at least one origination transmitter, said television programming-dn- including a plurality of images to be outputted at said at least one receiver station in a predetermined- sequence; receiving said at least one control signal, which at said remote intermediate television transmitter\* station operates to control communication of said television programming; and transmitting said at least one control signal to said at least one origination transmitter before a specific time.

displayed,  
receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.

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<p>12. A method of controlling communication between an intermediate data transmitter station and a plurality of remote receiver stations, said intermediate data transmitter station having a plurality of transfer devices and one of a controller and a computer operatively connected to said plurality of transfer devices, each of said plurality of remote receiver stations having a signal detector and a receiver station processor, said plurality of remote receiver stations each being adapted to detect at least one control signal, said method comprising the steps of: receiving, data at said intermediate data transmitter station, said data including (i) at least one of video, audio, text, and remote control signals, and (ii) an instruct signal which is operable to transmit some of said data from said plurality of remote receiver stations; receiving said at least one control signal at said intermediate data transmitter station, said one or more control signals being operative to delay transmission of at least a portion of said data; and</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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transmitting said data, said instruct signal and said at least one control signal from said intermediate data transmitter station to said plurality of remote receiver stations.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.



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<p>13. A method of communicating television program material from a television transmitter station to at least one television receiver station, said television transmitter* station including at least one of a broadcast and a cablecast transmitter, a selective transfer device, at least one television programming-source, a processor, at least one of a decoder and a detector, said one of a broadcast and a cablecast transmitter being adapted for transmitting a television signal to said one or more television receiver stations, said selective transfer device being adapted for communicating at least one receiver control signal, each of said at least one television programming source being adapted for outputting at least one television signal, said processor being adapted for identifying at least one signal], and said at least one of said decoder and said detector being operatively connected to said processor for at least one of decoding an identifier code and detecting at least one identifier datum, said method</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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comprising the steps of: receiving and storing a selection control signal; receiving from at least one remote transmission station an information transmission containing said at least one television signal and at least one instruct signal; passing at least some of said at least one television signal to said at least one of said decoder and said detector and at least one of decoding and detecting said at least one instruct signal; controlling said selective transfer device to communicate said at least one receiver control signal based on said selection control signal and said at least one of decoded and detected at least one instruct signal; communicating said television signal from said at least one television programming source to at least one of said one of a broadcast and a cablecast transmitter based on said step of controlling said selective transfer device; and transmitting said television signal and said at least one receiver control signal to said one or more television receiver stations.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.

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<p>20. A method of communicating television program material from a television transmitter station to a plurality of television receiver stations, said television transmitter station including a plurality of one of broadcast and cablecast transmitters, a switch having a plurality of inputs, a television programming source, a computer, at least one of a decoder and a detector, each of said plurality of one of broadcast and cablecast transmitters being adapted for transmitting television programming, said switch being operatively connected to said plurality of one of broadcast cablecast transmitters for communicating said television programming, said television programming source being operatively connected to one of said plurality of inputs, said computer being operatively connected to at least one of said switch and said television programming source for controlling said at least one of said switch and said television programming source, said at least one of</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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<p>said decoder and said detector being operatively connected to said computer for at least one of decoding and detecting an instruct signal, said method comprising the steps of: receiving and storing a selection control signal; selecting one of said plurality of one of broadcast and cablecast transmitters in accordance with said selection control signal; receiving from a remote station one of a broadcast and a cablecast information transmission comprising said instruct signal; passing at least some of said One of a broadcast and a cablecast information transmission to said one of said decoder and said detector and one of decoding and detecting said instruct signal; controlling said at least one of said switch and said television programming source to communicate said television programming- to said selected one of said plurality of one of broadcast and a cablecast transmitters at a specific time based on said instruct signal; and transmitting television programming from said</p>	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.</p>	
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television programming- source to said plurality of television receiver stations.		
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<p>23. A method of communicating television program material from a television transmitter station to a plurality of television receiver stations, said television transfer-utter station including a plurality of one of broadcast and cablecast transmitters, a switch having a plurality of inputs, a television programming~ source, a computer, at least one of a decoder and a detector, each of said plurality of one of broadcast and cablecast transmitters being adapted for transmitting said television program material, said switch being operatively connected to at least one of said plurality of one of broadcast and cablecast transmitters for communicating said television programming, said television programming source being operatively connected to one of said plurality of inputs, said computer being operatively connected to at least one of said switch and said television programming source, said computer being effective for controlling said at least one of said switch</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>

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and said television programming source, said at least one of said decoder and said detector being operatively connected to said computer for at least one of decoding and detecting said instruct signal, said method comprising the steps of: receiving and storing a communication control signal; receiving from at least one remote station an information transmission containing an instruct selection signal; passing at least some of said information transmission to said at least one of said decoder and said detector and at least one of decoding and detecting said instruct selection signal; selecting said at least one of said plurality of one of broadcast and cablecast transmitters in accordance with said instruct selection signal; controlling said at least one of said switch and said television programming source to communicate said television program material in accordance with said communication control signal; and transmitting said television program material to said plurality of television

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.

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receiver stations.		
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<p>29. A method of controlling a media network, wherein said media network includes a media transmitter station and a media receiver station, wherein said media transmitter station has a computer for controlling communication of signals, wherein said computer is adapted to transfer at least one media file based on at least one of (1) at least one command and (2) at least one specified time, wherein said at least one media file is stored at at least one computer peripheral storage location, wherein said media transmitter station stores at least one of a plurality of units of media programming in said at least one media file, wherein each of said plurality of units of media programming has an associated at least one of (1) a file designation and (2) a command designation, wherein said media receiver station has a processor for controlling presentation of media programming, and wherein said processor is programmed to present said media programming in accordance with at least one instruction of a media</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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<p>programming supplier of said media transmitter station, said method comprising the steps of: receiving at said media receiver station availability information of said media programming from said media transmitter station; and transmitting said at least one command to said media transmitter station, wherein said at least one command designates for each of a plurality of units of said media programming at least one of (1) a time of transmission and (2) a channel of transmission, and wherein said at least one command designating for each of said plurality of units of media programming said at least one of (1) said file designation and (2) said command designation; and causing said media transmitter station in response to said at least one command to transfer said at least one of said plurality of units of media programming from said at least one computer peripheral storage location and to transmit said at least one of said plurality of units of media programming based on said at least one of said time of</p>	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.</p>	
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transmission and said channel of transmission to said media receiver station.		
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<p>35. A method of controlling a media network, wherein said media network includes a media transmitter station and a media receiver station, wherein said media transmitter station has a computer for controlling communication of signals, wherein said computer is programmed to perform one of (1) communicating a file stored at a computer peripheral storage location and (2) controlling communication of media programming in accordance with a first command, wherein said media transmitter station stores at least one of a plurality of units of media programming, wherein each of said plurality of units of media programming has an associated one of (1) a file designation datum and (2) a command designation datum, wherein said media receiver station includes a processor for controlling presentation of said at least one of said plurality of media programming, and wherein said processor is programmed to perform at least one of (1) presenting said at least one of said</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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<p>plurality of units of media programming in a predetermined fashion based on a second command; and (2) enabling a presentation of said at least one of said plurality of units of media programming in accordance with an instruction of a media programming supplier of the media transmitter station, said method comprising the steps of: receiving at least one availability datum indicating availability of said at least one of said plurality of media programming from said media transmitter station; and transmitting said first command to said media transmitter station, wherein said command designates for said at least one of said plurality of units of media programming at least one of (1) a time of transmission and (2) a channel of transmission, wherein said first command designates for said at least one of said plurality of units of media programming said one of (1) said file designation datum and (2) said command designation datum, thereby to cause said media transmitter station to input a</p>	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.</p>	
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communication control datum to said computer; communicating said at least one of said plurality of units of media programming from said at least one computer peripheral storage location; and transmitting at least one of said plurality of units of media programming at said at least one of said time of transmission and said channel of transmission.		
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<p>36. A method of controlling a media network, wherein said media network has a media transmitter station and a media receiver station, wherein said media transmitter station includes a computer for controlling communication of signals, wherein said computer is programmed to control communication of media programming in accordance with a first command, wherein with said media transmitter station stores at least one of a plurality of units of media programming, wherein each of said stored at least one of said plurality of units of media programming has an associated at least one of (1) a file designation datum, and (2) a command designation datum, wherein said media receiver station has a processor for controlling presentation of said media programming, and wherein said processor is programmed to present said at least one of said plurality of units of media programming in a predetermined fashion and based on a second command, said method comprising the steps of: receiving at least</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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<p>one availability datum indicating availability of said media programming from said media transmitter station; and transmitting said first command to said media transmitter station, wherein said first command designates for each of said plurality of units of media programming at least one of (1) a time of transmission, and (2) a channel of transmission, and wherein said first command designates for said at least one of said plurality of units of media programming said at least one of (1) said file designation datum, and (2) said command designation datum; and causing said media transmitter station in response to said first command to: (a) input a communication control datum to said computer; (b) communicate said at least one of said plurality of units of media programming from a computer peripheral file storage medium; and (c) transmit said at least one of said plurality of units of media programming based on said at least one of said time of transmission and said channel of transmission.</p>	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.</p>	
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<p>37. A method of controlling a remote intermediate transmitter station to communicate mass medium programming to a remote receiver station and controlling said remote receiver station to deliver an individualized mass medium programming presentation, said method comprising the steps of: (1) receiving said mass medium programming to be transmitted by the remote intermediate transmitter station and delivering said mass medium programming to at least one origination transmitter; (2) receiving at least one instruct signal at said remote intermediate transmitter station, wherein said at least one instruct signal is operative at said remote receiver station to control delivery of at least one receiver specific datum during said individualized mass medium programming presentation; (3) receiving at least one control signal at said remote intermediate transmitter station, wherein said at least one control signal operates at said remote intermediate transmitter station to control</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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communication of at least one of said mass medium programming and said at least one instruct signal; and (4) transmitting from said remote intermediate transmitter station, in accordance with said at least one control signal, at least one information transmission containing said mass medium programming and said at least one instruct signal.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.

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<p>45. A method of controlling a remote intermediate transmitter station to communicate program material to a remote receiver station and controlling said remote receiver station to process a receiver specific response, said method comprising the steps of: (1) receiving mass medium programming to be transmitted by said remote intermediate transmitter station and delivering said mass medium programming to at least one origination transmitter; (2) receiving at least one instruct signal at said remote intermediate transmitter station; (3) receiving at least one control signal at said remote intermediate transmitter station, wherein said at least one control signal controls communication of said mass medium programming and said at least one instruct signal between said remote intermediate transmitter station and said remote receiver station; and (4) transmitting from said remote intermediate transmitter station at least one information transmission containing said mass medium</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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programming and said at least one instruct signal.

displayed,  
receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user.

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<p>46. A method of controlling a remote intermediate transmitter station to communicate program material to a remote receiver station and controlling said remote receiver station to communicate a response generated at said remote receiver station to a remote data collection station, said method of controlling comprising the steps of: (1) receiving programming to be transmitted from said remote intermediate transmitter station; (2) receiving at least one instruct signal at said remote intermediate transmitter station, wherein said at least one instruct signal operates at said remote receiver station to direct said remote receiver station to create and communicate a receiver specific record to said remote data collection station; (3) receiving at least one control signal at said remote intermediate transmitter station, wherein said at least one control signal controls communication of said programming and said at least one instruct signal between said remote intermediate transmitter</p>	<p>'725</p> <p>3. A method of communicating data to a multiplicity of receiver stations each of which includes a computer adapted to generate and transmit user specific signals to one or more associated output devices, with at least some of said computers being programmed to process modification control signals so as to modify the user specific signals transmitted to their associated output devices, each of said computers being programmed to accommodate a special user application, comprising the steps of: transmitting an instruct-to-transmit signal to said computers at a time when the corresponding user specific information is not being transmitted to an output device, detecting the presence of said instruct-to-transmit signal at selected receiver stations and coupling said instruct-to-transmit signal to the computers associated with said selected</p>	<p>For ex,</p> <p>- '490;</p> <p>- '490 + '725;</p> <p>- '490 + '825;</p> <p>- '490 + '414;</p> <p>- '490 + '654;</p> <p>- '490 + 277;</p> <p>- '725;</p> <p>- '725 + '825;</p> <p>- '825 + '414;</p> <p>- '825 + '654;</p> <p>- '825 + '277; etc.</p> <p>- '490 + Campbell et al;</p> <p>- '490 + Jeffers et al;</p> <p>- '490 + Hazelwood et al;</p> <p>- '490 + Galumbeck ('419) or ('886);</p> <p>- '490 + Gosch;</p> <p>- '490 + Stern;</p> <p>- '490 + Gunn;</p> <p>- '490 + Greenberg ('804);</p> <p>- '490 + Tunmann and J.F. Roche;</p> <p>- '490 + Vikene WO 8002093;</p> <p>- '490 + Barlow;</p> <p>- '490 + Zettl;</p> <p>- '490 + GB 1974 -10 (Millar);</p> <p>-490 + CBS/CCETT North American Broadcast Teletext Specification;</p> <p>same as above but substitute '725; but,</p>
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station and said remote receiver station; and (4) transmitting from said remote intermediate transmitter station at least one information transmission containing said unit of programming and said at least one instruct signal at a specific time in response to said at least one control signal.	stations, and causing said last named computers to generate and transmit their user specific signals to their associated output devices in response to said instruct-to-transmit signal, thereby to transmit to the selected output devices an output signal comprising said data and said related user specific signals, the output signals at a multiplicity of said output devices being different, with each output signal specific to a specific user	also the 7th patent.  -'490 + Yamane et al; -'490 + Hetrich; same as above, but substitute '725, '825; Likewise, '414, 654, '277.

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<p>47. A method of controlling at least one remote receiver station from a transmitter station, wherein said transmitter station includes a broadcast or cablecast transmitter for transmitting at least one control signal, a selective transfer device operatively connected to said plurality of broadcast or cablecast transmitter, a plurality of control signal sources, and a computer operatively connected to at least one of said plurality of control signal sources and said selective transfer device for controlling at least one of said at least one of said plurality of control signal sources and said selective transfer device, said method comprising the steps of: (1) receiving and storing at said transmitter station a first selection control signal; (2) selecting, in accordance with said first selection control signal, at least one of said plurality of control signal sources; (3) controlling said selective transfer device to communicate at least one second selection control signal from said selected said at least one of said plurality of control signal sources to</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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said broadcast or cablecast transmitter, wherein said at least one second selection control signal is operative at said at least one remote receiver station to perform at least one of receiving and outputting at least one of (1) mass medium programming and (2) information to perform one of supplementing and completing said mass medium programming; and (4) transmitting said at least one second selection control signal to said at least one remote receiver station.

displayed,  
receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user



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<p>48. A method of controlling a network that communicates one of a television and a radio signal, said network comprising at least one transmitter station for transmitting said at least one of a television and a radio signal, and at least one receiver station for receiving said at least one of a television and a radio signal, said at least one transmitter station and said at least one receiver station each having respectively a computer for controlling the communication of signals, said method comprising the steps of: selecting said at least one of a television and a radio signal, said at least one of a television and a radio signal including at least one of a program and a commercial, said at least one of a program and a commercial including at least an audio portion, said selected one of a television and a radio signal having an identification datum, said identification datum indicating said at least one of a program and a commercial; communicating said selected one of a television and a radio signal to a signal</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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generator; adding one or more instruct signals to said selected one of a television and a radio signal, said one or more instruct signals operative at said at least one transmitter station and said at least one receiver station to control one or more of reception and communication of said selected one of a television and a radio signal; and transmitting said selected one of a television and a radio signal and said one or more instruct signals to said at least one transmitter station.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user

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<p>55. A method of controlling a remote intermediate mass medium program transmitter station to communicate mass medium programming to a remote receiver station, said method comprising the steps of: receiving at an origination station a unit of mass medium programming; transmitting both the unit of mass medium programming and a first signal from the origination station to an intermediate mass medium program transmitter station; receiving at said intermediate mass medium program transmitter station the unit of mass medium programming and said first signal; retransmitting, based on said first signal, the unit of mass medium programming from said intermediate mass medium program transmitter station to said receiver station; and receiving and displaying said unit of mass medium programming at said remote receiver station.</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to- overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user</p>	
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<p>59. A method of controlling a remote intermediate mass medium program transmitter station to communicate mass medium programming to a remote receiver station, said method of controlling comprising the steps of: receiving at an origination station a unit of mass medium programming; transmitting both the unit of mass medium programming and a first signal from the origination station to an intermediate mass medium program transmitter station; receiving at said intermediate mass medium program transmitter station the unit of mass medium programming and said first signal; retransmitting, based on said first signal, the unit of mass medium programming from the intermediate mass medium program transmitter station to the remote receiver station; receiving at said remote receiver station said retransmitted unit of mass medium programming; generating, under computer control at the remote receiver station, user specific output; and outputting at said remote receiver station, a media presentation comprising said</p>	<p>'490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>

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unit of mass medium programming and said generated user specific output.

displayed,  
receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific

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<p>63. A method of controlling a remote intermediate mass medium program transmitter station to communicate mass medium programming to a remote receiver station, said method of controlling comprising the steps of: receiving at an origination station a unit of mass medium programming; transmitting the unit of mass medium programming, an identification signal identifying the unit of programming and one or more control signals from the origination station to an intermediate mass medium program transmitter station, at least said identification signal being transmitted concurrently with said unit of programming; receiving at said intermediate mass medium program transmitter station said unit of mass medium programming, said identification signal and said one or more control signals; detecting said identification signal; retransmitting said unit of mass medium programming, said identification signal and said one or more of the control signals from said intermediate mass medium</p>	<p>'414 1. In a signal processing system, a plurality of receiver/distribution means for receiving programming from a program source and for inputting said programming to a switch means and a plurality of detector means, a switch means for receiving output from said plurality of receiver/distribution means, said switch means being capable of directing a selected portion of said programming received from one or more said receiver/distribution means to an associated output device, a plurality of detector means for detecting control signals respecting said programming, a first processor means operatively connected to said plurality of detector means for identifying each detected control signal as having been detected by a particular detector means, a storage means for receiving and storing said detected control signals, and a second processor means for controlling the output</p>	<p>For example, '825; -'825 + '490; -'825 + '725; -'414 + '825; -'414 + '654; -'414 + '490; -'414 + '725; -'414 + '277; -'277 + '490; -'277 + '725; '277 + 654 -all of the above; -each of the above alone or together with Campbell et al; -each of the above alone or together with Jeffers et al;  See all claims for each patent.  For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.  For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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program transmitter station to said remote receiver station based on said identification signal; and receiving at said remote receiver station said unit of mass medium programming, said identification signals and said one or more control signals.	directing function of said switch means.	
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<p>66. A method of controlling a remote intermediate mass medium program transmitter station to communicate mass medium programming to a remote receiver station, said method of controlling comprising the steps of: receiving at an origination station one or more units of mass medium programming; transmitting said one or more units of mass medium programming, an identification signal identifying the one or more units of mass medium programming and one or more control signals, from said origination station to an intermediate mass medium program transmitter station, at least the identification signal being transmitted concurrently with said one or more units of mass medium programming; storing at said intermediate mass medium transmitter station, a programming schedule designating at least one of a time and a channel for transmitting said one or more units of mass medium mass programming; receiving at the intermediate mass medium transmitter station said one or more units of</p>	<p>'825 14. A method of processing signals including: (a) the step of receiving a carrier transmission; (b) the step of demodulating said carrier transmission to detect an information transmission thereon; (c) the step of detecting and identifying embedded signals on said information transmission; (d) the step of passing said embedded signals to a device or devices to be controlled based on instructions identified within said embedded signals; (e) the step of controlling said devices based on the instructions within said embedded signals; and (f) the step of recording the receipt of and passing to said devices of said embedded signals.</p>	<p>For example, '825; -'825 + '490; -'825 + '725; -'414 + '825; -'414 + '654; -'414 + '490; -'414 + '725; -'414 + '277; -'277 + '490; -'277 + '725; '277 + 654 -all of the above; -each of the above alone or together with Campbell et al; -each of the above alone or together with Jeffers et al;  See all claims for each patent.  For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.  For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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mass medium programming, said identification signal and said one or more control signals; detecting said identification signal; comparing said identification signal to said programming schedule; retransmitting said one or more units of mass medium programming, said identification signal and said one or more control signals from said intermediate mass medium program transmitter station to said remote receiver station according to said programming schedule based on said step of comparing; and receiving at said remote receiver station said one or more units of mass medium programming and said one or more control signals.		
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<p>68. A method of controlling a remote intermediate mass medium program transmitter station to communicate mass medium programming to a remote receiver station, said method of controlling comprising the steps of: receiving at an origination station a unit of mass medium programming; transmitting said unit of mass medium programming, an identification signal identifying said unit of mass medium programming and one or more control signal from said origination station to an intermediate mass medium program transmitter station, at least said identification signal being transmitted concurrently with said unit of mass medium programming; storing at said intermediate mass medium program transmitter station, a programming schedule designating at least one of a time and a channel for transmitting one or more units of programming; receiving at said intermediate mass medium program transmitter station said unit of mass medium programming, said identification signal and said</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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<p>one or more control signals; detecting said identification signal; comparing said identification signal to said programming signal and said one or more of the control signals form said intermediate mass medium program transmitter station to said remote receive station according to said programming schedule; receiving at said remote receiver station said unit of mass medium programming and said one or more control signals; and outputting the unit of mass medium programming on an output device; generating, under computer control, a user specific output; and outputting said generated user specific output on output device, such that 0 the one or more steps of outputting the programming, generating the user specific output, and outputting the generated output are controlled on the basis of said one or more control signals received at said remote receiver station.</p>	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user</p>	
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<p>71. A method of communicating units of programming in a communications network, said communications network including one or more origination stations and an intermediate transmission station, said intermediate transmission station having a programming receiver, at least one selective transmission device for transferring programming from said programming receiver to a transmitter, an automatic control unit operatively connected to said selective transmission device, and a detector operatively connected to said automatic control unit for detecting one or more signals, said method comprising the steps of: transmitting a plurality of units of programming from said origination stations, said plurality of units of programming including at least one signal for comparison; said intermediate transmission station receiving and passing to said automatic control unit, said comparison schedule; receiving said plurality of units of programming; detecting and</p>	<p>825</p> <p>14. A method of processing signals including: (a) the step of receiving a carrier transmission; (b) the step of demodulating said carrier transmission to detect an information transmission thereon; (c) the step of detecting and identifying embedded signals on said information transmission; (d) the step of passing said embedded signals to a device or devices to be controlled based on instructions identified within said embedded signals; (e) the step of controlling said devices based on the instructions within said embedded signals; and (f) the step of recording the receipt of and passing to said devices of said embedded signals.</p>	<p>For example,</p> <ul style="list-style-type: none"> <li>'825;</li> <li>- '825 + '490;</li> <li>- '825 + '725;</li> <li>- '414 + '825;</li> <li>- '414 + '654;</li> <li>- '414 + '490;</li> <li>- '414 + '725;</li> <li>- '414 + '277;</li> <li>- '277 + '490;</li> <li>- '277 + '725;</li> <li>- '277 + 654</li> <li>- all of the above;</li> <li>- each of the above alone or together with Campbell et al;</li> <li>- each of the above alone or together with Jeffers et al;</li> </ul> <p>See all claims for each patent.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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passing to said automatic control unit at least one signal for comparison; and selectively performing at least one of the steps of storing and retransmitting said plurality of units of programming based upon comparisons performed by said automatic control unit at different times in accordance with said comparison schedule.		
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<p>73. A method of communicating units of programming to an intermediate transmitter station in a communications network, said communications network including at least one origination station and an intermediate transmission station, said intermediate transmission station having a receiver, at least one selective transfer device for transferring units of programming from said receiver to a transmitter, an automatic control unit operatively connected to said selective transmission device, and a detector operatively connected to said automatic control unit, said method comprising the steps of: (1) receiving a comparison schedule in said at least one origination station and delivering said comparison schedule to at least one origination transmitter before a specific time, said comparison schedule being effective at the intermediate transmission station to instruct said automatic control unit to perform comparisons and at least one of to store and to retransmit</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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<p>said units of programming; (2) receiving said units of programming in said at least one origination station; (3) receiving a signal for comparison in said at least one origination station; (4) delivering said units of programming and said signal for comparison to said at least one origination transmitter, said signal for comparison being included in said units of programming and being delivered to said at least one origination transmitter before said specific time; and (5) transmitting from said origination stations said comparison schedule, said units of programming and said signal for comparison.</p>	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user</p>	
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<p>75. A method of communicating one or more units of programming in a communications network, said communications network including at least one origination station and an intermediate transmission station, said at least one origination station having at least one origination transmitter, said intermediate transmission station having a transmitter, a plurality of storage locations capable of receiving and storing at least one unit of programming, a receiver, and an automatic control unit operatively connected to at least one of said plurality of storage locations, said intermediate transmission station capable of delayed transmission, said method comprising the steps of: transmitting at least one of said one or more units of programming from said at least one origination stations; transmitting a selection control signal from said at least one origination station ; receiving said selection control signal and at least one of said one or more units of programming at said intermediate transmission station; passing said selection</p>	<p>825</p> <p>14. A method of processing signals including: (a) the step of receiving a carrier transmission; (b) the step of demodulating said carrier transmission to detect an information transmission thereon; (c) the step of detecting and identifying embedded signals on said information transmission; (d) the step of passing said embedded signals to a device or devices to be controlled based on instructions identified within said embedded signals; (e) the step of controlling said devices based on the instructions within said embedded signals; and (f) the step of recording the receipt of and passing to said devices of said embedded signals.</p>	<p>For example,</p> <p>'825;</p> <p>- '825 + '490;</p> <p>- '825 + '725;</p> <p>- '414 + '825;</p> <p>- '414 + '654;</p> <p>- '414 + '490;</p> <p>- '414 + '725;</p> <p>- '414 + '277;</p> <p>- '277 + '490;</p> <p>- '277 + '725;</p> <p>'277 + 654</p> <p>-all of the above;</p> <p>-each of the above alone or together with Campbell et al;</p> <p>-each of the above alone or together with Jeffers et al;</p> <p>See all claims for each patent.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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control signal to said automatic control unit; selecting at least one of said plurality of storage locations to store at least one of said one or more units of programming for delayed transmission, selecting at least one of said one or more units of programming to be delayed, said at least one of said plurality of storage locations and said at least one or more units of programming being selected in accordance with said selection control signal; and controlling said selected one of a plurality of storage locations to store the selected unit of programming to be delayed.		
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<p>77. A method of communicating information in a financial information receiver system, said financial information receiver system including a cable system, said cable system having a first receiver for receiving financial data including price data related to financial securities, a second receiver for receiving news items including television programming, a switch for switching communications transmissions, one or more storage devices for storing said financial data and said news items, and one or more user stations, each user station for receiving and communicating financial information to a subscriber, with each user station having a third receiver, a computer operatively connected to said third receiver, and an output device operatively connected to said third receiver and said computer for outputting said financial information, said method comprising the steps of: receiving a digital communications signal, said digital communications signal including said financial data; supplying one</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>

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or more comparison signals, each comparison signal including an identifier of at least one of a news item and a financial datum; detecting the presence of at least one instruct-to-coordinate signal at said receiver station, each said at least one instruct-to-coordinate signal designating information content to be coordinated with a news item and at least one of: (1) at least one financial datum to communicate to a storage location for subsequent processing; (2) financial output information content to be generated; and (3) a signal identifying news to be communicated; generating said financial output information content by processing data stored in said computer in response to an instruct-to-generate signal; and communicating television programming to said subscriber that contains said financial output information content and said news item.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user

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<p>79. A method of communicating television programming in a television communications network, said communications network having one or more programming origination stations, at least one intermediate transmitter station, and at least one receiver station, said method comprising the steps of: transmitting a plurality of channels of television programming concurrently from said one or more programming origination stations to said at least one intermediate transmitter station, each channel communicating television programming and at least one identification signal, said television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to portray motion; receiving the plurality of channels of programming at said at least one intermediate transmitter station; detecting at least one of the identification signals transmitted on the received programming channels; retransmitting said plurality of channels of television</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>

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programming on a plurality of retransmission channels or frequencies; selecting at least one of said plurality of retransmission channels or frequencies based on said detected at least one identification signal; selectively retransmitting the programming from one or more of the received programming channels over said at least one selected one of said plurality of retransmission channels or frequencies to said at least one receiver station based on the identification signals; and receiving, at the receiver station, the programming transmitted from said at least one intermediate transmitter station.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user

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<p>84. A method of communicating television programming in a television communications network, said communications network having at least one programming origination station, at least one intermediate transmitter station, and at least one viewer station, said method comprising the steps of: transmitting a plurality of channels of television programming concurrently from said at least one programming origination station to said at least one intermediate transmitter station, each channel communicating television programming and at least one identification signal, each said at least one identification signal identifying the television programming communicated therewith, said television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to portray motion; storing a programming schedule at the at least one intermediate transmitter station; receiving the plurality of channels of</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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programming at the at least one intermediate transmitter station; detecting the identification signals on at least one of the received programming channels; retransmitting said plurality of channels of programming on a plurality of retransmission channels or frequencies; selecting at least one of said plurality of retransmission channels or frequencies based on at least one of said detected identification signals; comparing the detected identification signals to the programming schedule; selecting at least a portion of said received television programming for retransmission based on said step of comparing; retransmitting the selected television programming from one or more of said received plurality of channels of programming "n from the at least one intermediate transmitter station over said at least one selected one of said plurality of retransmission channels or frequencies to said at least one viewer station; and receiving, at said at least one viewer station, said selected

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user



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television programming transmitted from the at least one intermediate transmitter station.		
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<p>87. A method of communicating television programming in a television communications network, said communications network having at least one programming origination station, at least one intermediate transmitter station, and at least one viewer station, said method comprising the steps of: transmitting a plurality of channels of television programming concurrently from said at least one programming origination station to said at least one intermediate transmitter station, said television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to portray motion, at least one of said plurality of channels communicating at least one identification signal, said at least one identification signal identifying at least a portion of said television programming; storing a programming schedule at said at least one intermediate transmitter station; receiving said plurality of channels of programming at said at least</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of: transmitting a video signal containing a television program signal to said receivers, transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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<p>one intermediate transmitter station; detecting said at least one identification signal; retransmitting said plurality of channels of programming on a plurality of retransmission channels or frequencies; selecting at least one of said plurality of retransmission channels or frequencies based on said detected at least one identification signal; comparing said detected at least one identification signal to said programming schedule; selecting said at least said portion of said received television programming for storage at said at least one intermediate transmitter station based on said step of comparing; storing said selected at least said portion of said television programming at said at least one intermediate transmitter station; transmitting said selected at least said portion of said television programming from one or more of said received plurality of channel of programming from said at least one intermediate transmitter station over said at least one selected one of said plurality of</p>	<p>displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user</p>	
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retransmission channels or frequencies to said at least one viewer station based on said programming schedule; receiving, at said at least one viewer station, said television programming transmitted from said at least one intermediate transmitter station.		
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<p>90. A method of controlling a remote television transmitter station and a television receiver station; said method comprising the steps of: communicating an information transmission from an origination station to said remote television transmitter station, said information transmission including a plurality of channels of television programming, a first signal and a second signal, said plurality of channels of television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to portray motion; storing a programming schedule at the remote television transmitter station, receiving the information transmission at the remote television transmitter station* detecting the first signal; comparing the first signal to the programming schedule; retransmitting said plurality of channels of programming on a plurality of retransmission channels or frequencies; selecting at least one of said plurality of retransmission channels or</p>	<p>414</p> <p>1. In a signal processing system, a plurality of receiver/distribution means for receiving programming from a program source and for inputting said programming to a switch means and a plurality of detector means, a switch means for receiving output from said plurality of receiver/distribution means, said switch means being capable of directing a selected portion of said programming received from one or more said receiver/distribution means to an associated output device, a plurality of detector means for detecting control signals respecting said programming, a first processor means operatively connected to said plurality of detector means for identifying each detected control signal as having been detected by a particular detector means, a storage means for receiving and storing said detected control signals, and a second processor means for controlling the output</p>	<p>For example,</p> <p>'825;</p> <p>- '825 + '490;</p> <p>- '825 + '725;</p> <p>- '414 + '825;</p> <p>- '414 + '654;</p> <p>- '414 + '490;</p> <p>- '414 + '725;</p> <p>- '414 + '277;</p> <p>- '277 + '490;</p> <p>- '277 + '725;</p> <p>'277 + 654</p> <p>-all of the above;</p> <p>-each of the above alone or together with Campbell et al;</p> <p>-each of the above alone or together with Jeffers et al;</p> <p>See all claims for each patent.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>

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frequencies based on said detected first signal; retransmitting said plurality of channels of television programming and said second signal from the intermediate transmitter station over said at least one selected one of said plurality of retransmission channels or frequencies to said receiver station, based on said step of comparing; receiving at the television receiver station the television programming and the second signal; detecting the second signal; and outputting said television programming at the television receiver station based on said second signal.	directing function of said switch means.	
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<p>91. A method of controlling a remote television transmitter station and a television receiver station, said method comprising the steps of: communicating an information transmission from an origination station to said remote television transmitter station, said information transmission including a plurality of channels of television programming, a first signal and a second signal, said plurality of channels of television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to portray motion; receiving the information transmission at the remote television transmitter station; detecting the first signal at said remote television transmitter station; performing a function at the remote television transmitter station based on said detected first signal; retransmitting said plurality of channels of television programming on a plurality of retransmission channels or frequencies; selecting at least one of said plurality of retransmission channels or frequencies</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al.</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>

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based on said detected first signal; retransmitting said plurality of channels of television programming and said second signal from the remote television transmitter station over said at least one selected one of said plurality of retransmission channels or frequencies to said television receiver station; receiving at the television receiver station at least said plurality of channels of television programming and said second signal; detecting said second signal at said television receiver station; performing a function at the television receiver station based upon said detected second signal.

displayed,  
receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user



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<p>93. A method of controlling a remote television transmitter station and a television receiver station, said method comprising the steps of communicating an information transmission from an origination station to said remote television transmitter station, said information transmission containing a plurality of channels of television programming and a first signal, said plurality of channels of television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to portray motion; receiving the information transmission at said remote television transmitter station; detecting the first signal at said remote television transmitter station; performing a function at said remote television transmitter station based on said detected first signal; embedding, at said remote television transmitter station, a second signal in the information transmission containing said television programming; retransmitting said plurality of channels of television</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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programming on a plurality of retransmission channels or frequencies; selecting at least one of said plurality of retransmission channels or frequencies based on said detected first signal; transmitting said plurality of channels of television programming and said embedded second signal from the remote television transmitter station over said at least one selected one of said plurality of retransmission channels or frequencies to said television receiver station; receiving at the television receiver station said at least said plurality of channels of television programming and said embedded second signal; detecting the second signal at said television receiver station; performing a function at the television receiver station based upon said detected second signal.

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user

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<p>94. A method of communicating television programming in a communications network, said communications network including at least one origination station and at least one intermediate transmission station, said at least one intermediate transmission station having at least one transmitter, at least one receiver, at least one selective transfer device for transferring programming from said at least one receiver to said at least one transmitter, at least one automatic control unit operatively connected to said selective transfer device, and at least one signal detector operatively connected to said at least one automatic control unit, said method comprising the steps of: transmitting from said at least one origination station an information transmission containing a plurality of channels of television programming, said plurality of channels of television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to</p>	<p>490</p> <p>1. A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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portray motion, and said information transmission including at least one retransmission control signal; transmitting at least one signal for comparison from said at least one origination station; said at least one intermediate transmission station detecting and passing to said at least one automatic control unit said at least one retransmission control signal; receiving said plurality of channels of television programming; retransmitting said plurality of channels of television programming on a plurality of retransmission channels or frequencies; selecting at least one of said plurality of retransmission channels or frequencies based on said at least one retransmission control signal; receiving and passing to said at least one automatic control unit said at least one signal for comparison; and performing at least one of the steps of (1) selectively storing at least a portion of said plurality of channels of television programming based on said at least one comparison performed by said at least one automatic control unit and (2)

displayed, receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user

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selectively transferring said plurality of channels of television programming for transmission over said at least one selected one of said plurality of retransmission channels or frequencies in accordance with said at least one retransmission control signal.		
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<p>95. A method of communicating a plurality of channels of television programming in a communications network, said communications network including at least one origination station and at least one intermediate transmission station, said at least one intermediate transmission station having at least one transmitter, at least one receiver, at least one selective transfer device for transferring said plurality of channels of television programming from said at least one receiver to said at least one transmitter, at least one automatic control unit operatively connected to said selective transfer device, and at least one signal detector operatively connected to said at least one automatic control unit, said method comprising the steps of receiving at least one signal for comparison at said at least one origination station, said at least one signal for comparison being effective at said at least one intermediate transmission station to serve as a basis for instructing said at least one automatic control unit regarding at least a portion of</p>	<p>490</p> <p>1: A method of communicating television program material to a multiplicity of receiver stations each of which includes a television receiver and computer, the computers being adapted to generate and transmit overlay signals to their associated television receivers, said overlay signals causing the display of user specific information related to said program material, and with at least some of said computers being programmed to process overlay modification control signals so as to modify the overlay signals transmitted to their associated receivers, each of said computers being programmed to accommodate a specific user application, comprising the steps of:</p> <p>transmitting a video signal containing a television program signal to said receivers,</p> <p>transmitting an instruct-to-overlay signal to said receiver stations at a time when the corresponding overlay is not being</p>	<p>for example</p> <p>- '654;</p> <p>- '725 + Campbell et al;</p> <p>- '725 + Jeffers et al;</p> <p>- '490 + Campbell et al;</p> <p>- '725 + Jeffers et al.</p> <p>- '825 + Campbell et al;</p> <p>- '825 + Jeffers et al.</p> <p>- '277 + Campbell et al;</p> <p>- '277 + Jeffers et al</p> <p>For '654 see clms 1-71;</p> <p>For '725 patent see claims 1-5;</p> <p>For '490 patent see clms 1-13.</p> <p>For Campbell et al see abnd parent of '791 patent corresponding to '791 col 17 line 65 through col 18 line 29.</p> <p>For Jeffers et al see '510 patent col 14 lines 58-64.</p>
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said plurality of channels of television programming to store; receiving said plurality of channels of television programming at said at least one origination station, said plurality of channels of television programming including at least one of (i) audio and (ii) a plurality of video images to be displayed in a predetermined sequence to portray motion; delivering said plurality of channels of television programming and said at least one signal for comparison to said at least one transmitter, said signal for comparison being included in an information transmission containing said plurality of channels of television programming and being delivered to said at least one transmitter before a specific time; receiving at least one retransmission control signal at said at least one origination station and delivering said at least one retransmission control signal to said at least one transmitter before said specific time; retransmitting said plurality of channels of television programming on a plurality of retransmission channels or frequencies;

displayed,  
receiving said video signal at a plurality of receiver stations and displaying said program material on the video receivers of selected ones of said plurality of receiver stations, detecting the presence of said instruct-to-overlay signal at said selected receiver stations and coupling said instruct-to-overlay signal to the computers associated with the video receivers of said selected stations, and causing said last named computers to generate and transmit their overlay signals to their associated television receivers in response to said instruct-to-overlay signal, thereby to present a display at the selected receiver stations including the television program material and the related computer generated overlay, the overlays displayed at a multiplicity of said receiver stations being different, with each display specific to a specific user

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selecting at least one of said plurality of retransmission channels or frequencies based on said at least one retransmission control signal; transmitting from said at least one origination station over said at least one selected one of said plurality of retransmission channels or frequencies said at least one signal for comparison, said plurality of channels of television programming, and said at least one retransmission control signal.		
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